Here is a suggested course of review for the upcoming semester exam.  Students will sit this assessment on December 18 from 9-11am.  Any topic which was covered in Problem Sets 1-25, or the three labs (all semester) could be on the assessment.

*The questions below are good places to look for extra practice, but the other good study tool is to go back over some of the questions from the **Problems sets**, and to review the three **major assessments.***


### *T1 - Numbers and Algebra*

#### *Binomial Expansions, Arithmetic and Geometric Sequences - (T1.2; T1.3; T1.9)*
Oxford, p.188 Exercise 60 #1-8
          P.189 Review Exercises
Calculator Inactive 1-4,6,8,9
Calculator Active 1-9

#### *Geometric/Arithmetic Sequences and Series*
Cirrito, 8.2 #1,3,6,7 p.255


### *T2 - Functions*

#### *Functions, composites, inverses, and solving systems - (T2.2; T2.5; T2.10)*
Oxford, p.25 Review Exercises
          Calculator Inactive #1-13
          Calculator Active #1-10
Cirrito, 5.4.1, #1-22, p.154   OR Oxford, 1F, p16, Q3-6
          5.4.2 #1-16, p.164     OR Oxford, 1H, p20, Q2

#### *Function Transformations (T2.11)*
Cirrito, 6.1, #2,9,10, p.174
          6.2, #3,4, p.181
          6.3, #1,2, p.186

#### *Exponential and Log Functions*
Cirrito 7.4, p227, do a few from Q1,2,4,6
Cirrito 5.3.4, p142, do a few from Q2,3

#### *Annuities*
See Lab 3

### *T3 - Trigonometry and Geometry*

### *Shapes*
Cylinders, Spheres, Cones, boxes and pyramids  (see questions in problem sets)

### *Trigonometry, Sine Rule, Cosine Rule, Area of Triangle - (T3.2; T3.3)*
Oxford, p.398 Review Exercises
>    Calculator Inactive #1,2,3,4
>    Calculator Active #1,3,4,5,6

### *Non-Right Triangle Trigonometry (Bearing, Angle of Elevation and Depression)*
Cirrito, 9.2 #1-13, p.281

### *Sinusoidals (continuing on the trig theme …….. )*
Oxford 13.7, p487, Q1-4

### *Calculator Inactive Trigonometry (T3.5)*
Cirrito, 10.1, #3,4,14,15, p.324

### *Calculator Inactive Trigonometry (T3.5)*
Cirrito, 10.1, #3,4,14,15, p.324
Oxford 13 Review, p488, Q1,2,3

### *T4 - Probability and Statistics*

### *Probability, Venn Diagrams, Tree Diagrams, Conditional Probability - (T4.5; T4.6)*
Oxford, p.94 #5, p.95 #2,3,4,5

### *Linear Regression and Cumulative Frequency (T4.2, T4.4)*
Oxford 8G, p273, Q1,6,7
Oxford 10E, p347, Q1-5

### *Venn Diagrams/Symbolic Probability*
Oxford 3.2, p75, Q5-9; p77, Q2,4; p83, Q12,13